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3. DISTRIBUTION/AVAILABILITY OF REPORT

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5. MONITORING ORGANIZATION REPORT NUMBER(S)

DOD POP HMTR/AYD 91-015

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6b. OFFICE SYMBOL
(If applicable)

7a. NAME OF MONITORING ORGANIZATION

Packaging Division, AED

SMCAR-AEP

6c. ADDRESS (City, State, and ZIP Code)

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Picatinny Arsenal, NJ 07806-5000

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Performance Oriented Packaging Report for Mine, Apers, M18A1

12. PERSONAL AUTHOR(S)

Sniezek, Frank

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16. SUPPLEMENTARY NOTATION

17. COSATI CODES

FIELD

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SUB-GROUP

18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

Performance Oriented Packaging, POP, Mine,
Apers, M18A1, Mil-B-46506, Wirebound box

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This POP report describes the results of testing conducted on the packaging for the Mine, Apers, M18A1, which is packaged 6 mines/Mil-B-46506 wirebound box. (25) * Notes (overhead), performance, etc.

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20. DISTRIBUTION/AVAILABILITY OF ABSTRACT

☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS

21. ABSTRACT SECURITY CLASSIFICATION

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22a. NAME OF RESPONSIBLE INDIVIDUAL

Steve Ruffini

22b. TELEPHONE (Include Area Code)

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I. REPORT NUMBER: DOD POP HMTR/AYD 91-015

II. TITLE: Performance Oriented Packaging Report for Mine, Apers,
M18A1

AUTHOR: Frank M. Sniezek

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army
ARDEC, SMCAR-AEP
HQ, U.S. Army Armament, Munitions, and Chemical Command
Picatinny Arsenal, NJ 07806-5000

DATE: 8 Aug 91

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By	
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A-1	

1. DATA SHEET

CONTAINER

Type: Box

UN Code: 4C1

Nomenclature: Box, Wirebound, Packing, Ammunition, for Mine, Apers, M18A1 w/ accessories or Mine, Apers, Practice, M68

Specification Number: Mil-B-46506

Drawing Number: 8800900

Material: Wood and wire

Gross Weight: 53.0 pounds

Outside Dimensions: 15 1/8 in. x 10 9/16 in. x 13 17/32 in.

Inside Dimensions: 12 3/4 in. x 9 1/2 in. x 11 7/8 in.

PRODUCT

Name: Mine, Apers, M18A1

Drawing Number: 8835166

United Nations Number:

Physical State: Solid

Amount per Container: 6

2. BACKGROUND, TESTS, AND RESULTS

Reference the following documents:

- a. United Nations Transport of Dangerous Goods, Sixth Edition
- b. Federal Register dated December 21, 1990
- c. Federal Register Notice dated February 21, 1991

A Stacking Test was conducted on 3 containers with a weight of 2500 pounds for 24 hours. This weight exceeds the minimum requirement of a weight equivalent to a 10 foot stack height which is 807 pounds.

A Loose Cargo Test was conducted IAW with the Federal Register on the same 3 containers. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicate that there was no leakage or spillage of the container following any of the tests conducted, and as such, meets the requirements of the Federal Register and The United Nations Transport of Dangerous Goods.